

ABSTRACT OF THE DISCLOSURE

This invention relates to methods and apparatus for producing a discretely striped, multi-property foam and the products and articles produced thereby. The invention provides a pre-foam stream at a first pressure and intermittently injects at least one additive into the pre-foam stream at a pressure higher than the first pressure, providing a laminar flow pre-foam stream with alternating segments having different properties. The pre-foam stream is poured onto a surface and cures into a discretely striped foam product which may be used for many purposes such as but not limited to padding, clothing, toys, or bedding.

1. A method for producing a discretely striped foam product, comprising: providing a pre-foam stream at a first pressure; intermittently injecting at least one additive into the pre-foam stream at a pressure higher than the first pressure, providing a laminar flow pre-foam stream with alternating segments having different properties; and pouring the pre-foam stream onto a surface and curing the pre-foam stream into a discretely striped foam product.